14230 U.S.PTO
031804

22858 U.S.PTO
10/803293
031804

PATENT APPLICATION TRANSMITTAL LETTER

TO: Mail Stop PATENT APPLICATION
Commissioner for Patents
Box 1450
Arlington, VA 22313-1450

Attorney Docket No.: 134522

Express Mail Label No.: ER 523334306 US

Transmitted herewith for filing under

35 USC 111(a) and 37 CFR 1.53(b) (NEW UTILITY OR DESIGN PATENT APPLICATION)
as a new: ☒ utility or ☐ design patent application

for application entitled: ROTARY PULSE DETONATION SYSTEM WITH AERODYNAMIC DETONATION PASSAGES FOR USE IN A GAS TURBINE ENGINE

and invented by: Kattalaicheri Srinivasan Venkataramani et al.

Enclosed are:

1. ☒ Specification with 32 total pages having:
 - a. ☒ Claims numbered from 1 to 36
 - b. ☒ Abstract
 - c. ☒ Drawing (s) (35 USC 113) as follows:
 - (1) ☒ Formal ☐ Informal
 - Total sheets –12 with Figures No. 1 to No. 12
 - d. ☒ Oath or Declaration with 2 total pages as follows:
 - (1) ☒ Newly executed and signed ☐ Unsigned
 - (2) ☐ Copy from prior application (37 CFR 1.63d) Serial No. filed on
 - (3) ☒ With Power of Attorney ☐ Without Power of Attorney
2. ☒ Assignment (Coversheet and documents)
3. ☐ Preliminary Amendment
4. ☒ Return Receipt Postcard (MPEP 503) (should be specifically itemized)
5. ☐ Application Data Sheet
6. ☒ Information Disclosure Statement
 ☒ PTO-1449 ☒ Copies of Cited Documents
7. ☐ Certified Copy of Priority Document
8. ☐ Nonpublication Request under 35 USC 122(b)(2)(B)(i) Applicant must attach form PTO/5B/35 or its equivalent
9. ☒ Additional Enclosures as follows:
 - a. ☒ Express Mail Receipts
 - b. ☒ Fee Transmittal

10. If a continuation or divisional application:
☐ continuation ☐ division ☐ continuation-in-part of prior application Serial No. filed on:
☐ Cancel in this application original claims of the prior application before calculating the filing fee (at least one independent claim must be retained for filing purposes)
☐ Amend the specification by inserting before the first line: This application is a application Serial No. filed on which is hereby incorporated by reference in its entirety.
☐ Prior application information: Examiner Group Art Unit

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 1 d (2), is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

11. ☒ Filing fee calculated and transmitted:

a. ☒ utility patent application filing fee as described below for the claims as filed less any canceled above

Large Entity

For	No. Filed	No. Extra	Rate	Fee
Basic				$ 770
Total Claims	36 - 20 =	16	x $ 18 =	$ 288
Ind. Claims	4 - 3 =	1	x $ 86 =	$ 86
Mult. Dep. ☐			+ $280 =	$
Total Filing Fee				**$ 1144.00**

b. ☐ design patent application filing fee of $330.00

c. ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 07-0865 as described below. A duplicate copy of this sheet is enclosed.

(1) Charge the amount of ☐ $330.00 ☐ $740.00 ☒ $1144.00 for the filing fee.

(2) ☒ Credit any overpayment.

(3) ☒ Charge any additional filing fees required under 37 CFR 1.16 and 1.17.

(4) ☐ Charge the Issue Fee set in 37 CFR 1.18 at the mailing of the Notice of Allowance, pursuant to 37 CFR 1.311(b).

d. ☐ A check in the amount of $ for the filing fee is enclosed.

Date: March 18, 2004

Attorney Name James P. Davidson

Reg. No. 32,563



Attorney Signature

10250 Alliance Road, Suite 120
Cincinnati, Ohio 45242
Tel:(513) 891-2100 Fax:(513) 891-2230
Email: jdavid5952@aol.com

12. Correspondence Address

☒ Customer Number or Bar Code label **31786**

Or ☒ Correspondence Address below

Name	James P. Davidson, Esq.				
Address	10250 Alliance Road, Suite 120				
City	Cincinnati	State	Ohio	Zip	45242
Country	USA	Telephone	(513) 891-2100	Fax	(513) 891-2230

PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT ($) 1184.00

Complete if Known	
Application Number	
Filing Date	MARCH 18, 2004
First Named Inventor	KATTALAICHERI S. VENKATARAMANI
Examiner Name	
Art Unit	
Attorney Docket No.	134522

METHOD OF PAYMENT *(check all that apply)*

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☑ Deposit Account:

Deposit Account Number: 07-0865

Deposit Account Name: General Electric Company

The Director is authorized to: *(check all that apply)*

☑ Charge fee(s) indicated below ☑ Credit any overpayments

☑ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, **except for the filing fee** to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code	Large Entity Fee ($)	Small Entity Fee Code	Small Entity Fee ($)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	770.00
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) ($) 770.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

		Extra Claims		Fee from below	Fee Paid
Total Claims	36	-20** = 16	X	18.00	= 288.00
Independent Claims	4	- 3** = 1	X	86.00	= 86.00
Multiple Dependent					=

Large Entity Fee Code	Large Entity Fee ($)	Small Entity Fee Code	Small Entity Fee ($)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) ($) 374.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code	Large Entity Fee ($)	Small Entity Fee Code	Small Entity Fee ($)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for *ex parte* reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) ($) 40.00

SUBMITTED BY

(Complete *(if applicable)*)

Name (Print/Type)	William Scott Andes	Registration No. (Attorney/Agent)	33,582	Telephone	513/243-5955
Signature				Date	MARCH 18, 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10) Applicant(s): **Kattalaicheri Srinivasan Venkataramani et al.**			Docket No. **134522**
Serial No.	Filing Date **March 18, 2004**	Examiner	Group Art Unit

Invention: **ROTARY PULSE DETONAITON SYSTEM WITH AERODYNAMIC DETONATION PASSAGES FOR USE IN A GAS TURBINE ENGINE**

I hereby certify that the following correspondence:

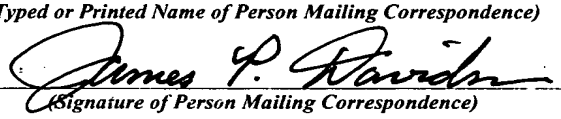
Patent Application Transmittal Letter

(Identify type of correspondence)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

March 18, 2004
(Date)

James P. Davidson
(Typed or Printed Name of Person Mailing Correspondence)



(Signature of Person Mailing Correspondence)

ER 523334306 US
("Express Mail" Mailing Label Number)

Note: Each paper must have its own certificate of mailing.

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10) Applicant(s): Kattalaicheri Srinivasan Venkataramani et al.			Docket No. 134522
Serial No.	Filing Date March 18, 2004	Examiner	Group Art Unit

Invention: **ROTARY PULSE DETONAITON SYSTEM WITH AERODYNAMIC DETONATION PASSAGES FOR USE IN A GAS TURBINE ENGINE**

I hereby certify that the following correspondence:

Fee Transmittal

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March 18, 2004
(Date)

James P. Davidson
(Typed or Printed Name of Person Mailing Correspondence)

James P. Davidson
(Signature of Person Mailing Correspondence)

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CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10) Applicant(s): **Kattalaicheri Srinivasan Venkataramani et al.**	Docket No. **134522**

Serial No.	Filing Date	Examiner	Group Art Unit
	March 18, 2004		

Invention: **ROTARY PULSE DETONAITON SYSTEM WITH AERODYNAMIC DETONATION PASSAGES FOR USE IN A GAS TURBINE ENGINE**

I hereby certify that the following correspondence:

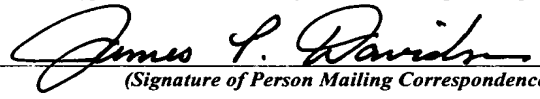
Assignment Document and Recordation Form

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is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

March 18, 2004
(Date)

James P. Davidson
(Typed or Printed Name of Person Mailing Correspondence)



(Signature of Person Mailing Correspondence)

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CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10) Applicant(s): Kattalaicheri Srinivasan Venkataramani et al.			Docket No. 134522
Serial No.	Filing Date March 18, 2004	Examiner	Group Art Unit

Invention: **ROTARY PULSE DETONAITON SYSTEM WITH AERODYNAMIC DETONATION PASSAGES FOR USE IN A GAS TURBINE ENGINE**

I hereby certify that the following correspondence:

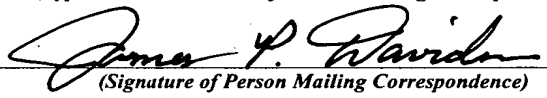
Declaration and Power of Attorney

(Identify type of correspondence)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

March 18, 2004
(Date)

James P. Davidson
(Typed or Printed Name of Person Mailing Correspondence)


(Signature of Person Mailing Correspondence)

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CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10) Applicant(s): **Kattalaicheri Srinivasan Venkataramani et al.**			Docket No. **134522**
Serial No.	Filing Date **March 18, 2004**	Examiner	Group Art Unit

Invention: **ROTARY PULSE DETONAITON SYSTEM WITH AERODYNAMIC DETONATION PASSAGES FOR USE IN A GAS TURBINE ENGINE**

I hereby certify that the following correspondence:

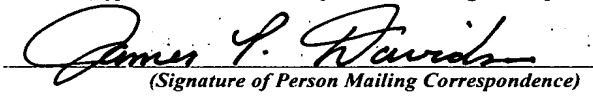
Patent Specification and Formal Drawings (12 Sheets)

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